

SUBSET 06 - SITE ILLUMINATION INDEX OF DRAWINGS

[illegible]

DESIGNED BY:
VN ENGINEERS, INC.

[illegible]

1. LIGHTING CIRCUITS IN NORTH PARKING AREA AND ADJACENT TO MAIN BUILDING ARE 480 VOLT, 3Ø, 3 WIRE. LIGHTING CIRCUITS LOCATED AT 152 BREWERY STREET ARE 240 VOLT, 3Ø, 3 WIRE.
2. THE CONTRACTOR IS TO INSTALL 1 #2 BARE COPPER GROUNDING CONDUCTOR THROUGHOUT ALL LIGHTING CIRCUITS.
3. THE CONTRACTOR SHALL CONTACT THE ENGINEER WHEN ACCESS TO A CIRCUIT IS REQUIRED, AND FOLLOW ALL METRO NORTH RAILROAD LOCKOUT/TAGOUT PROCEDURES.
4. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO CALL FOR A COMPLETE ELECTRICAL INSTALLATION. IT IS NOT THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO INCLUDE EVERY DETAIL OF ELECTRICAL WORK REQUIRED TO BE PERFORMED BY THE CONTRACTOR TO MAKE A COMPLETE INSTALLATION. ITEMS NOT SHOWN ON THE DRAWINGS OR INCLUDED IN THE SPECIFICATIONS, THAT ARE REQUIRED TO BE PERFORMED BY THE CONTRACTOR TO PERFORM HIS WORK ARE TO BE INCLUDED AS PART OF HIS WORK.
5. ALL OF THE CONTRACTOR'S ELECTRICAL WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, PROJECT SPECIFICATIONS, MNR STANDARDS, AND NATIONAL ELECTRICAL SAFETY CODE.
6. LOCATION OF EXISTING ILLUMINATION ON PLANS IS APPROXIMATE AND MUST BE VERIFIED IN THE FIELD.
7. CONTRACTOR TO PROVIDE NAMEPLATES ON EACH WOOD LIGHT POLE, CONTAINING POLE NUMBER, SERVICE AND CIRCUIT INFORMATION.

LUMINAIRE SCHEDULE					
TYPE	NUMBER	LAMP WATTAGE	LAMP TYPE	DESCRIPTION	OPERATING VOLTAGE
A	MOW 900A	284	LED	284 WATT 30' MH TYPE II DISTRIBUTION	480v
B	MOW 905B, MOW 910B, MOW 915B, MOW 920B, MOW 940B	284	LED	2-284 WATT SYMMETRIC LED LIGHT 30' MH TYPE IV DISTRIBUTION	480v
C	MOW 925C, MOW 930C, MOW 935C, MOW 945C, MOW 950C, MOW 955C, MOW 960C, MOW 965C, MOW 970C, *WP-2C	284	LED	284 WATT 30' MH TYPE IV DISTRIBUTION	480v *240v
D	WP-3D, WP-4D, WP-5D, WP-6D, WP-7D, WP-8D, WP-9D	146	LED	146 WATT LED 30' MH TYPE V	240v

HANDHOLE / JUNCTION BOX COORDINATES



STRUCTURE NO	NORTH	EAST
MOW 900A	668999.35	952639.97
MOW 905B	668812.38	952467.86
MOW 910B	668878.07	952603.36
MOW 915B	668938.64	952752.70
MOW 920B	668972.40	952836.08
MOW 925C	668635.10	952614.29
MOW 930C	668700.89	952584.25
MOW 935C	668709.37	952689.06
MOW 940B	668795.10	952790.27
MOW 945C	668864.94	952902.00
MOW 950C	688766.26	952980.22
MOW 955C	668725.91	953004.52
MOW 960C	668635.96	952968.60
MOW 965C	668542.71	952932.31
MOW 970C	668451.91	952907.46
WP-2C	670262.03	952822.14
WP-3D	670249.40	952923.43
WP-4D	670232.99	952970.63
WP-5D	670223.61	953019.60
WP-6D	670215.06	953068.86
WP-7D	670206.51	953118.13
WP-8D	670196.59	953175.27
WP-9D	670157.73	953159.39
LS-1	669028.78	952690.48
LS-2	670269.35	952916.19

STRUCTURE NO	NORTH	EAST
HH 900	668996.66	952633.39
HH 905	668816.45	952474.30
HH 910	668881.55	952611.93
HH 915	668942.05	952761.01
HH 920	668969.00	952827.77
HH 925	668640.10	952606.77
HH 930	668706.55	952578.22
HH 935-1	668712.07	952695.49
HH 935-2	668768.82	952668.76
HH 940	668822.93	952790.81
HH 945	668873.49	952902.50
JB 950	668771.49	952977.56
HH 950	668803.23	952955.72
JB 955	668732.25	953003.00
JB 960	668641.08	952971.20
JB 965	668548.70	952934.11
HH 965	668532.73	952932.99
HH 970	668457.24	952911.73
HH 975	668901.63	952669.80
JB 980	668792.88	952963.31
HH WP-2	670256.21	952819.18
HH WP-3	670247.43	952930.45
HH WP-4	670239.87	952971.85
HH WP-5	670231.15	953020.94
HH WP-6	670222.41	953070.17
HH WP-7	670213.66	953119.40
HH WP-8	670203.52	953176.50
HH WP-9	670164.66	953160.63

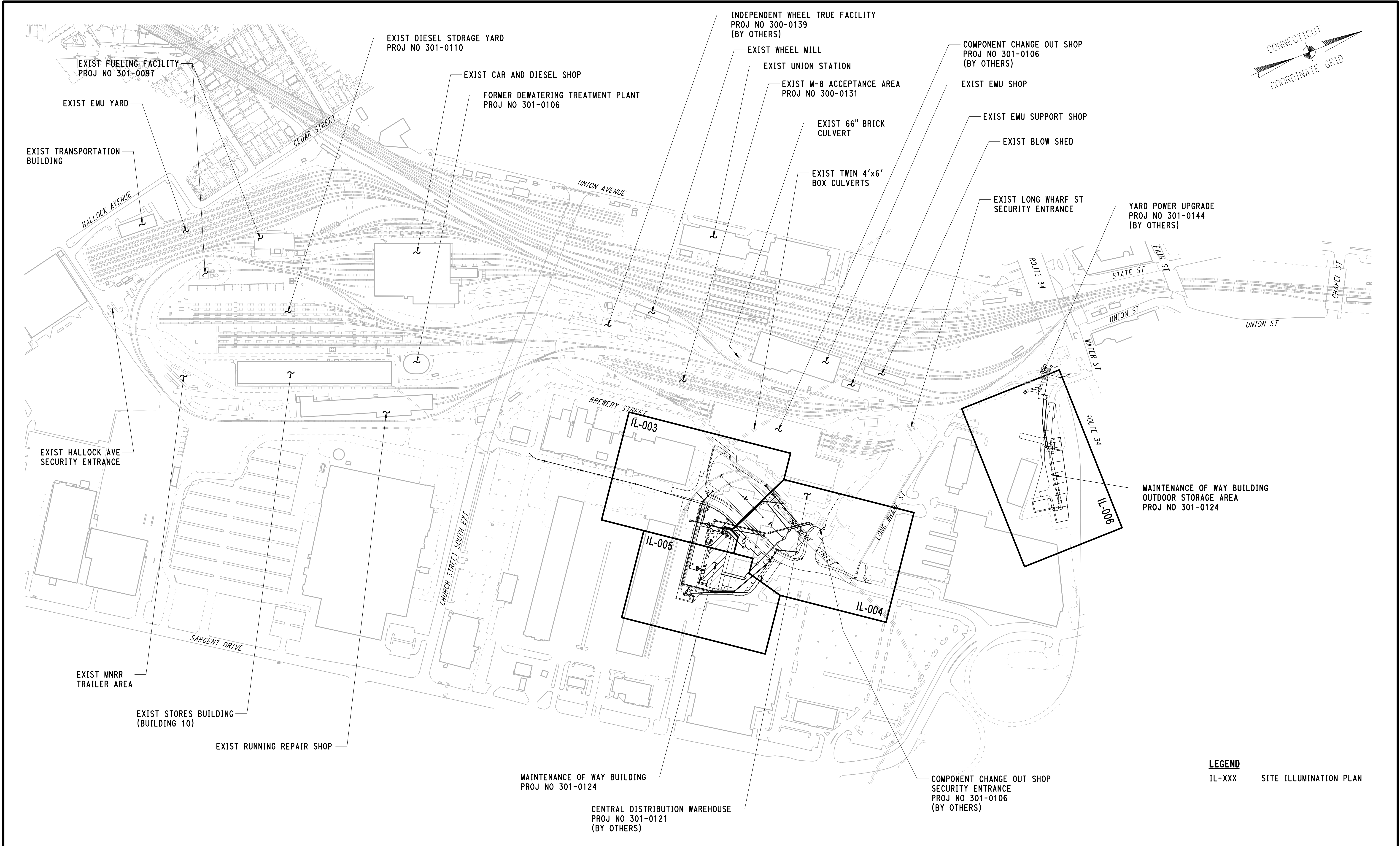
Q	CENTERLINE
C	CONDUIT
CIRC	CIRCUIT
EXIST	EXISTING
GRND	GROUND
HM	HIGHMAST
HPS	HIGH PRESSURE SODIUM
LGT, LTG	LIGHTING
MFR	MANUFACTURER
MIN	MINIMUM
MNR	METRO NORTH RAILROAD
MTD	MOUNTED
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
P	POLE
PT	POINT
PVC	POLYVINYL CHLORIDE CONDUIT
REL	RELOCATE
RMC	RIGID METAL CONDUIT
UNO	UNLESS NOTED OTHERWISE
WP	WOOD POLE
XFMR	TRANSFORMER

<u>LIGHTING STATISTICS</u>					
	AVERAGE (fc)	MAX (fc)	MIN (fc)	MAX/MIN (fc)	AVE/MIN (fc)
BREWERY STREET PARKING	2.4	7.3	0.7	10.4:1	3.4:1
NEW BUILDING PARKING	2.3	5.7	0.7	8.1:1	3.3:1
NEW STORAGE AREA	2.8	6.0	0.6	10.0:1	4.7:1


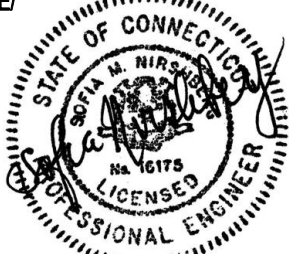
300-0131	M-8 ACCEPTANCE FACILITY
300-0137	EMU AND CSR CAR SHOP IMPROVEMENTS
300-0138	WEST END YARD
300-0139	INDEPENDENT WHEEL TRUE FACILITY
301-0097	FUELING FACILITY
301-0106	COMPONENT CHANGE OUT SHOP
301-0110	DIESEL STORAGE YARD
301-0123	PEDESTRIAN BRIDGE OVERPASS
301-0124	MAINTENANCE OF WAY BUILDING
301-0144	YARD POWER UPGRADE

				THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: NMA / MWD CHECKED BY: RSG		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: 20_ILNL_3010088_IL-001.dgn		SIGNATURE/ BLOCK:  VN ENGINEERS NORTH HAVEN, CT		PROJECT TITLE: NEW HAVEN RAIL YARD FACILITIES IMPROVEMENTS MAINTENANCE OF WAY BUILDING		TOWN: NEW HAVEN		PROJECT NO. 301-0124	
												DRAWING NO. IL - 001		SHEET NO. 06.02			
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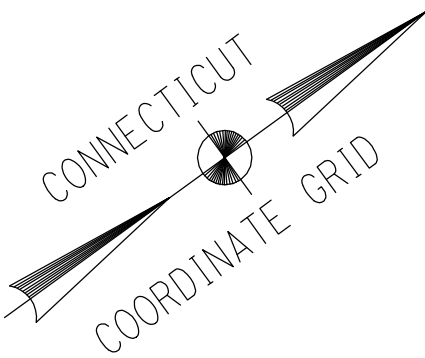
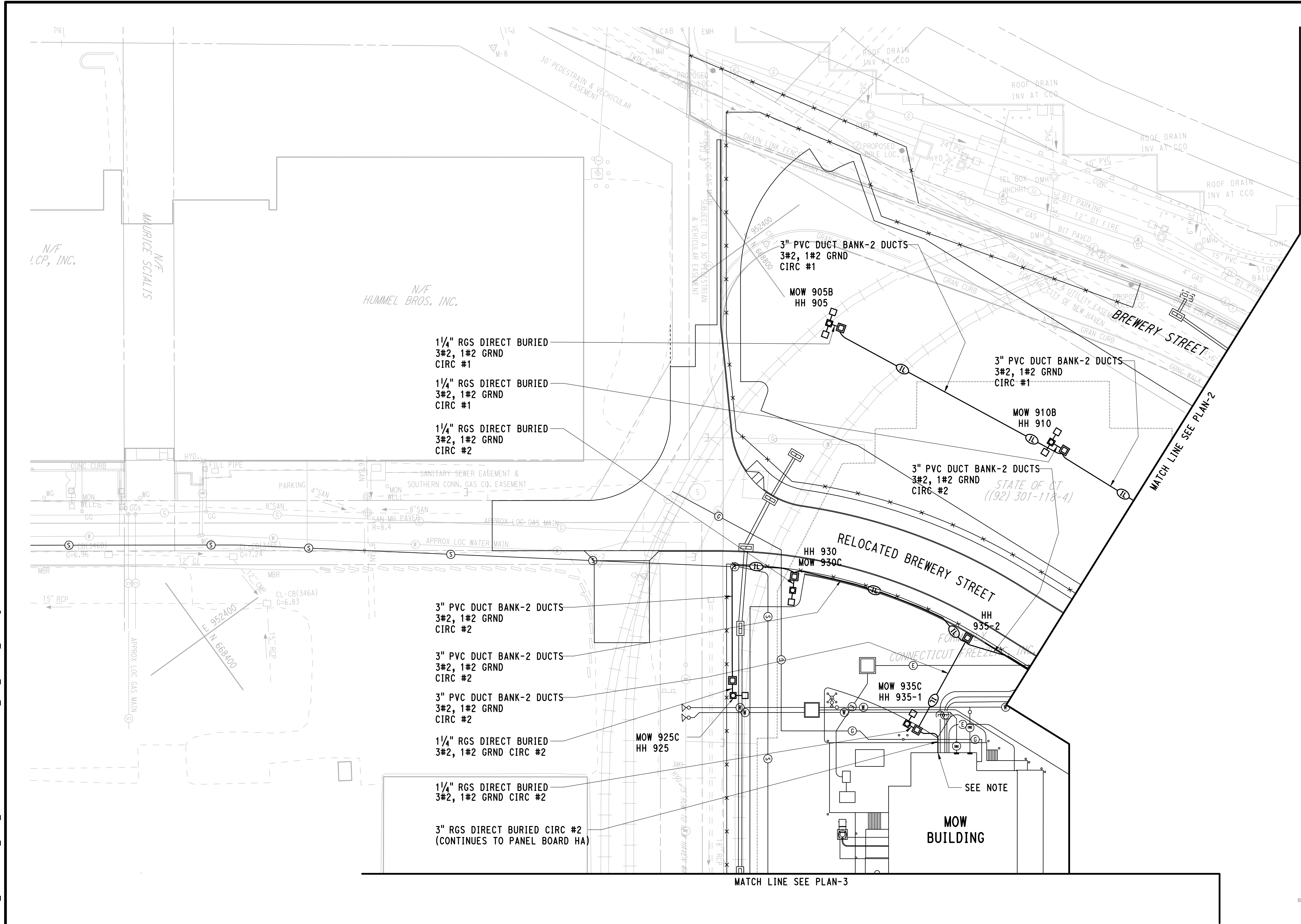
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LEGEND
IL-XXX SITE ILLUMINATION PLAN

REV.		DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/1/2015	DESIGNER/DRAFTER: NMA / MWD	CHECKED BY: RSG	SCALE IN FEET 0 200 400 SCALE 1"=200'	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	 VN ENGINEERS NORTH HAVEN, CT	PROJECT TITLE: NEW HAVEN RAIL YARD FACILITIES IMPROVEMENTS MAINTENANCE OF WAY BUILDING	TOWN: NEW HAVEN	PROJECT NO. 301-0124
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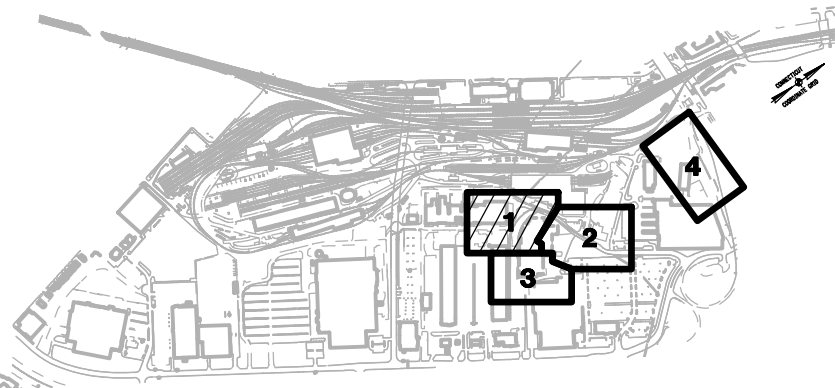


SYMBOL LIST

- ILLUMINATION HANDHOLE
- SERVICE ENTRANCE AND CABINET - TYPE II
- SITE LIGHT POLE, FOUNDATION AND LUMINAIRE
- DUAL SITE LIGHT POLE, FOUNDATION AND LUMINAIRE
- SITE LIGHT POLE ANCHOR BASE
- WOOD POLE WITH LUMINAIRE
- WOOD POLE
- JUNCTION BOX
-

NOTE:

REFER TO DWG NO E14-002 FOR CONTINUATION OF LIGHTING SERVICE WITHIN BUILDING.



KEY PLAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/1/2015

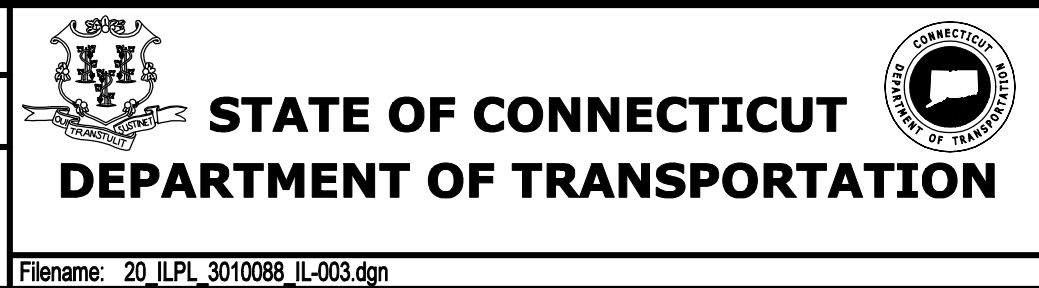
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NMA / MWD

CHECKED BY:
RSQ

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0 30 60

SCALE 1"=30'



SIGNATURE/BLOCK:

STATE OF CONNECTICUT

REGISTERED PROFESSIONAL ENGINEER

VN ENGINEERS NORTH HAVEN, CT

PROJECT TITLE:

NEW HAVEN RAIL YARD FACILITIES IMPROVEMENTS MAINTENANCE OF WAY BUILDING

TOWN: **NEW HAVEN**

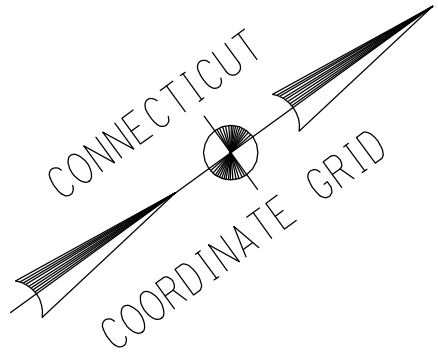
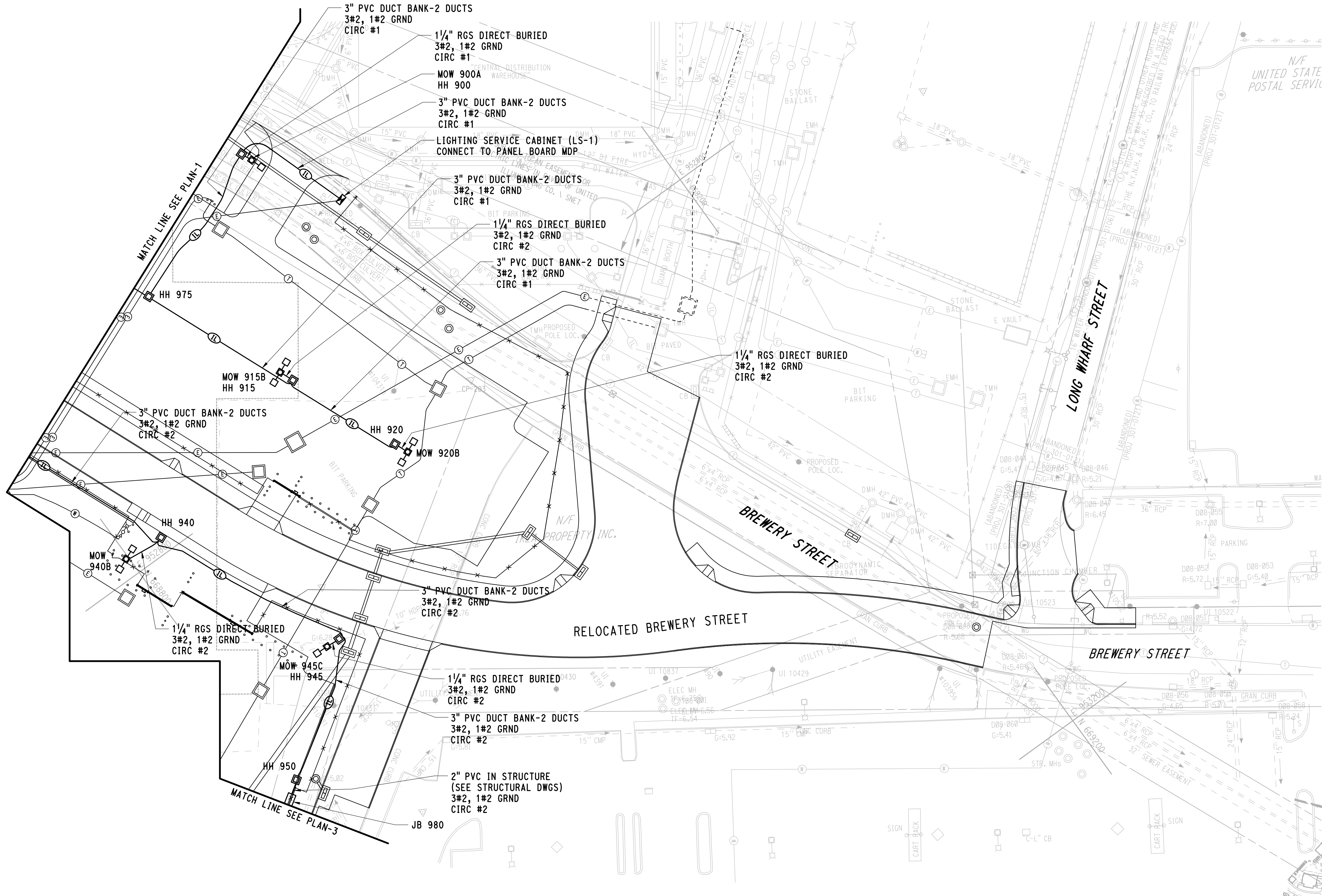
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PROJECT NO. **301-0124**

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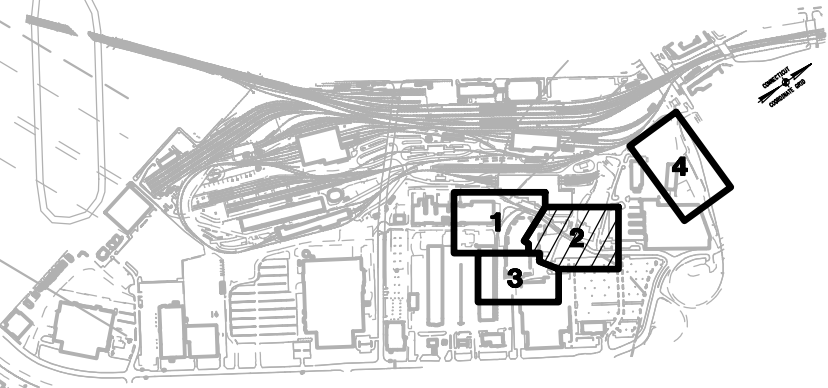
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SYMBOL LIST

- ILLUMINATION HANDHOLE
- SERVICE ENTRANCE AND CABINET - TYPE II
- 3"-2 WAY DUCT BANK
- SITE LIGHT POLE, FOUNDATION AND LUMINAIRE
- DUAL SITE LIGHT POLE, FOUNDATION AND LUMINAIRE
- SITE LIGHT POLE ANCHOR BASE
- WOOD POLE WITH LUMINAIRE
- WOOD POLE
- JUNCTION BOX
- 2" PVC IN STRUCTURE

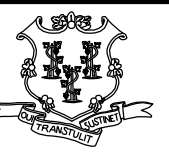


KEY PLAN

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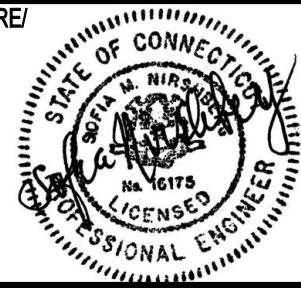


**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**

Filename: 20_ILPL_3010088_IL-004.dgn



SIGNATURE/BLOCK:



VEN ENGINEERS
NORTH HAVEN, CT

PROJECT TITLE:

**NEW HAVEN RAIL YARD
FACILITIES IMPROVEMENTS
MAINTENANCE OF WAY BUILDING**

TOWN:

NEW HAVEN

DRAWING TITLE:

**SITE ILLUMINATION
PLAN-2**

PROJECT NO.

301-0124

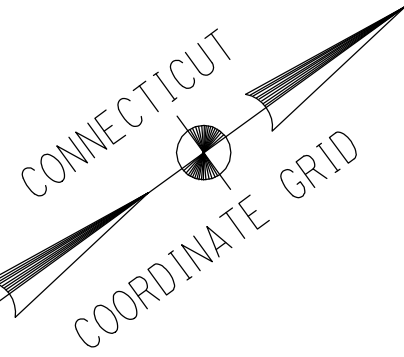
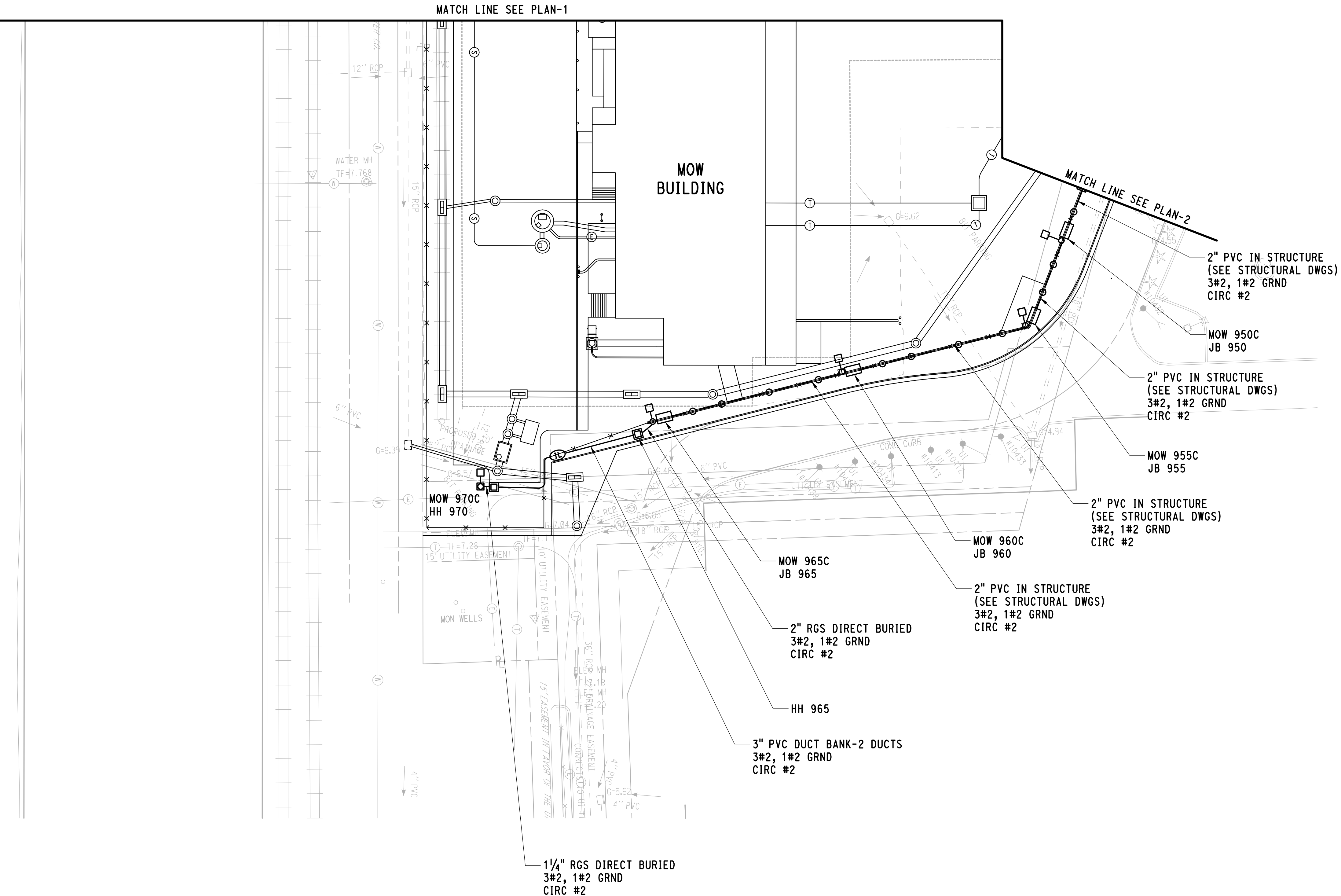
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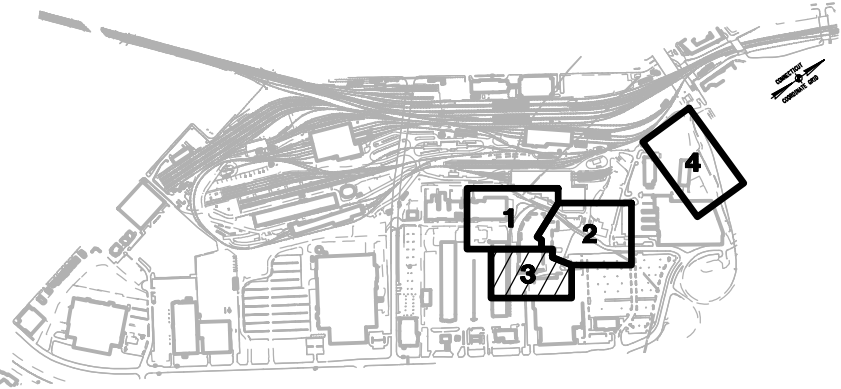
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SYMBOL LIST

- ILLUMINATION HANDHOLE
- SERVICE ENTRANCE AND CABINET - TYPE II
- 3"-2 WAY DUCT BANK
- SITE LIGHT POLE, FOUNDATION AND LUMINAIRE
- DUAL SITE LIGHT POLE, FOUNDATION AND LUMINAIRE
- SITE LIGHT POLE ANCHOR BASE
- WOOD POLE WITH LUMINAIRE
- WOOD POLE
- JUNCTION BOX
- 2" PVC IN STRUCTURE




KEY PLAN


REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 3/27/2015

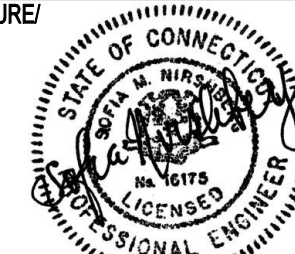
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**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**



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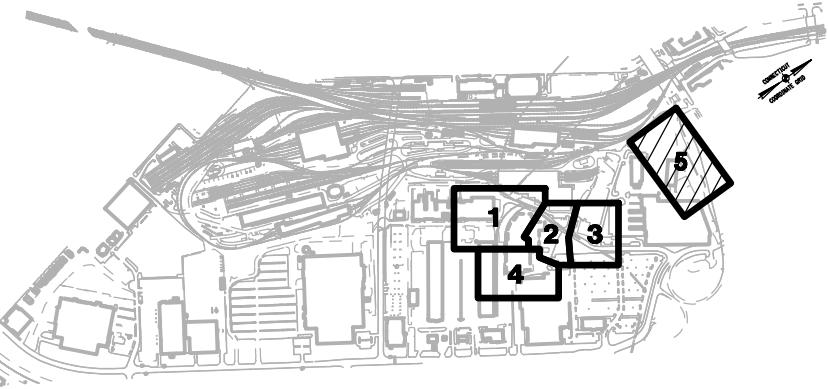
**STATE OF CONNECTICUT
PROFESSIONAL ENGINEER**

VN ENGINEERS
NORTH HAVEN, CT




PROJECT TITLE:

**NEW HAVEN RAIL YARD
FACILITIES IMPROVEMENTS
MAINTENANCE OF WAY BUILDING**

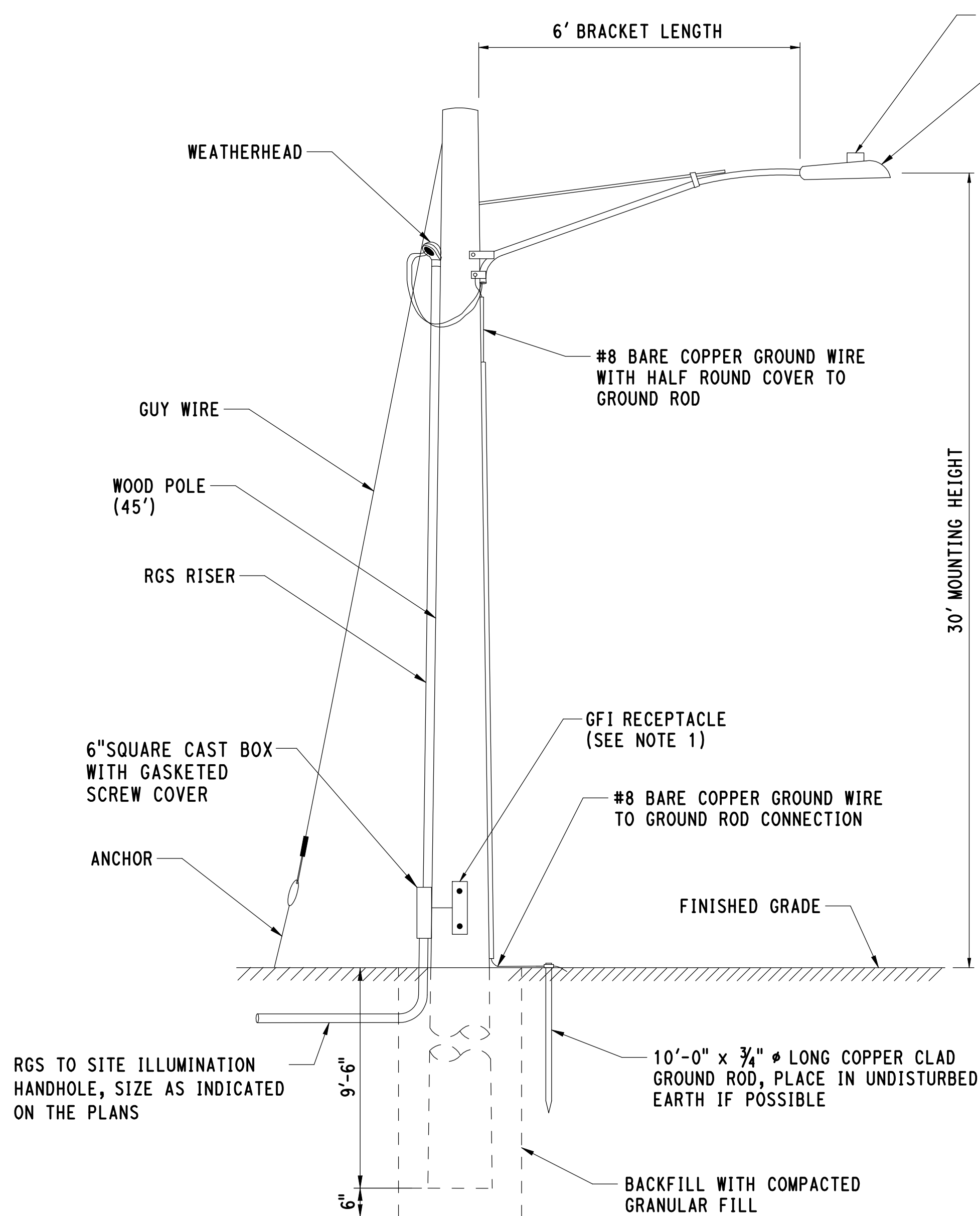
TOWN:	NEW HAVEN	PROJECT NO.	301-0124
DRAWING TITLE:	SITE ILLUMINATION PLAN-3	DRAWING NO.	IL-005
		SHEET NO.	06.06



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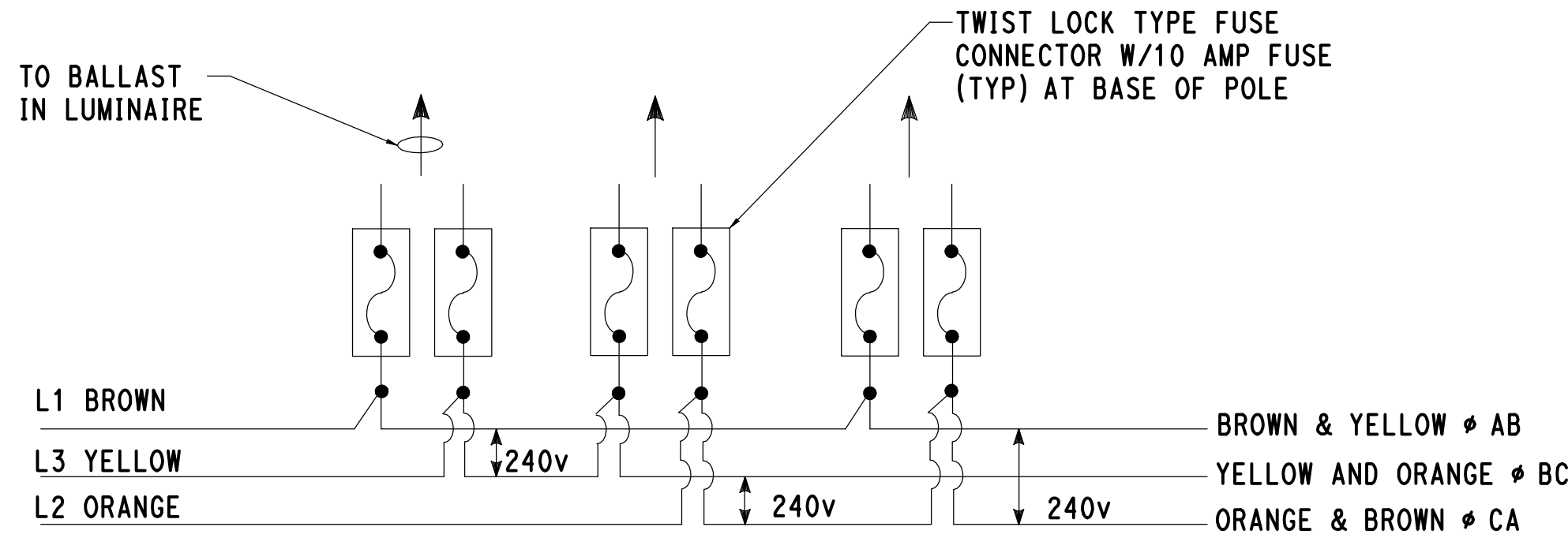


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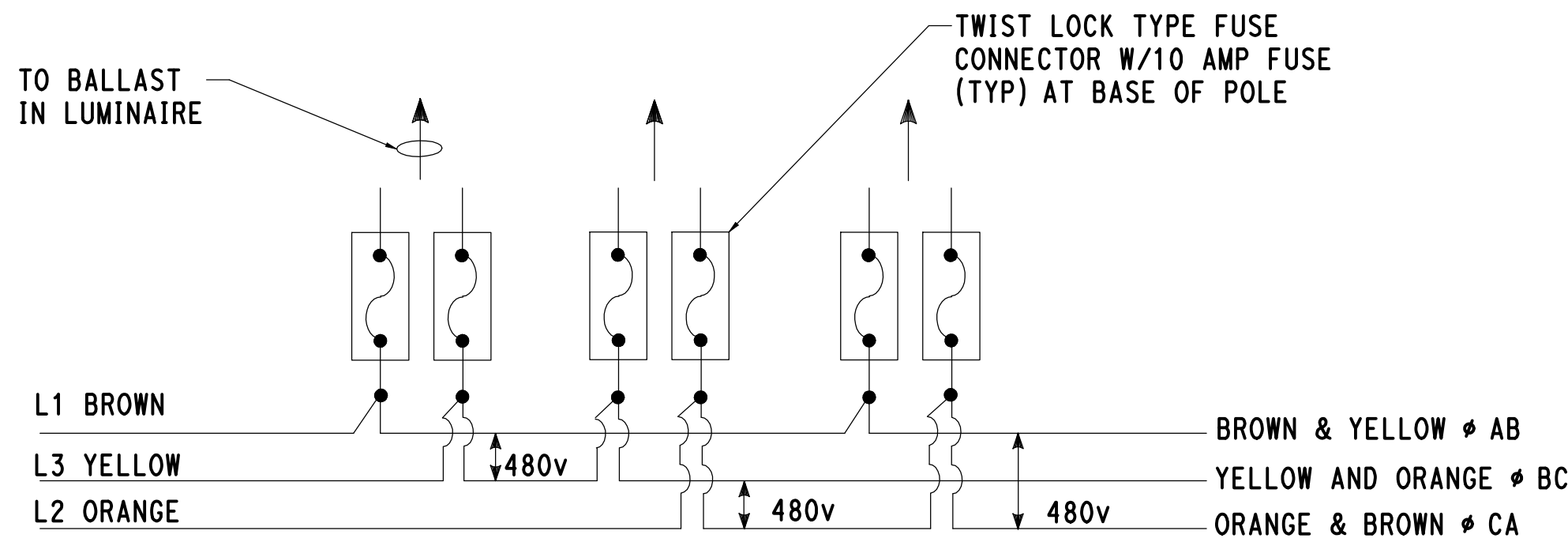
1. REFER TO DWG NO UM-008 FOR RECEPTOR POWER DETAIL.
2. THIS DETAIL APPLIES TO POLES WP-2C, WP-3D, WP-4D, WP-5D, WP-6D, WP-7D, WP-8D AND WP-9D.

**TYPICAL ILLUMINATION UNIT
ON WOOD POLE**

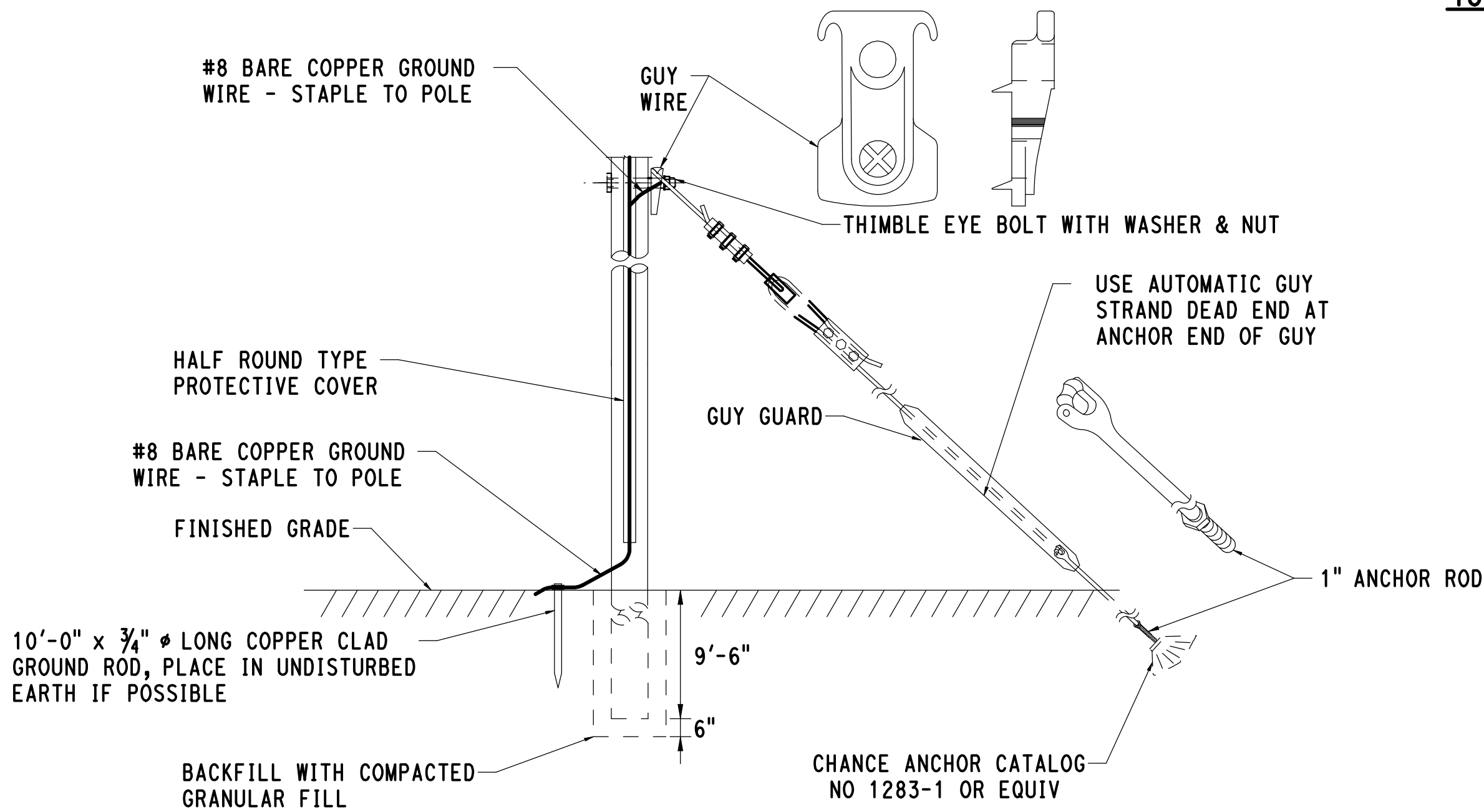
PHOTOELECTRIC CELL
ROADWAY LUMINAIRE LED (MEDIUM,
FULL-CUTOFF, TYPE IV OR V AS
PER PLANS) MULTI TAP BALLAST
MOUNTED MIN 30' ABOVE GROUND ELEV
(REFER TO LUMINAIRE SCHEDULE ON
DWG NO IL-001)



240v 3 PHASE 3 WIRE SYSTEM DETAIL





480v 3 PHASE 3 WIRE SYSTEM DETAIL



NOTES:

ALL GUY WIRES SHALL BE ENCASED.
HIGH VISIBILITY YELLOW PLASTIC SAFETY COVERS TO A HEIGHT OF 8 FEET ABOVE GROUND ELEVATION.

TYPICAL GUY WIRE INSTALLATION

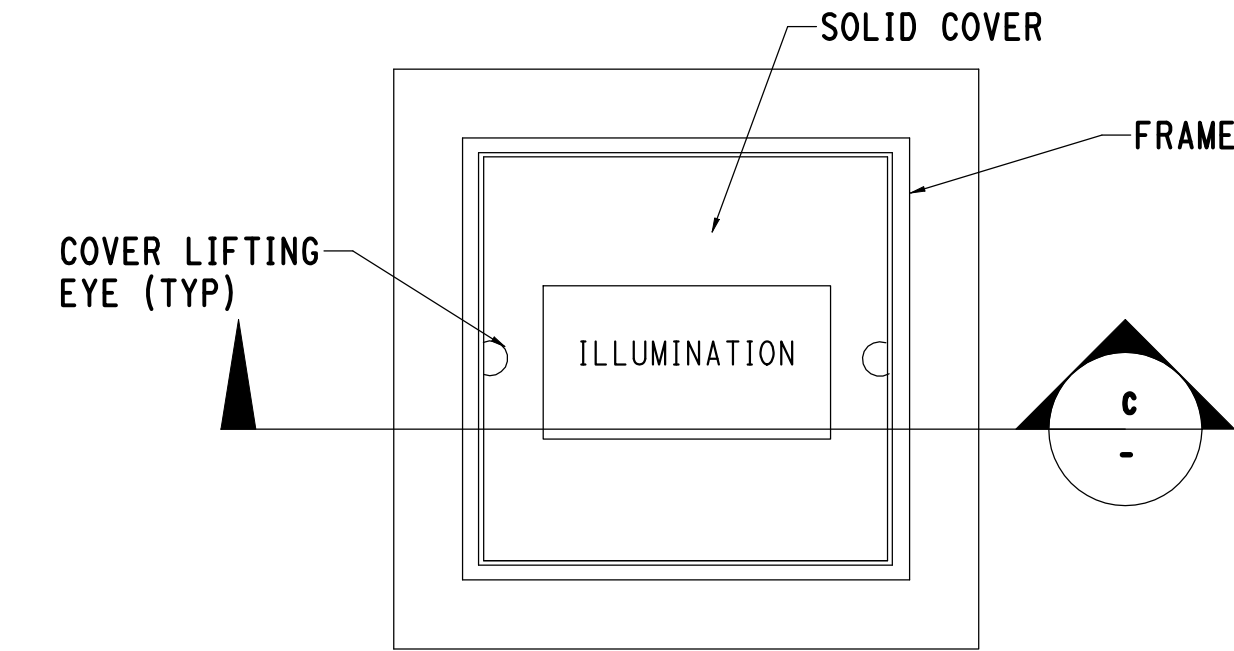
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						NOT TO SCALE										SHEET NO. 06.08	
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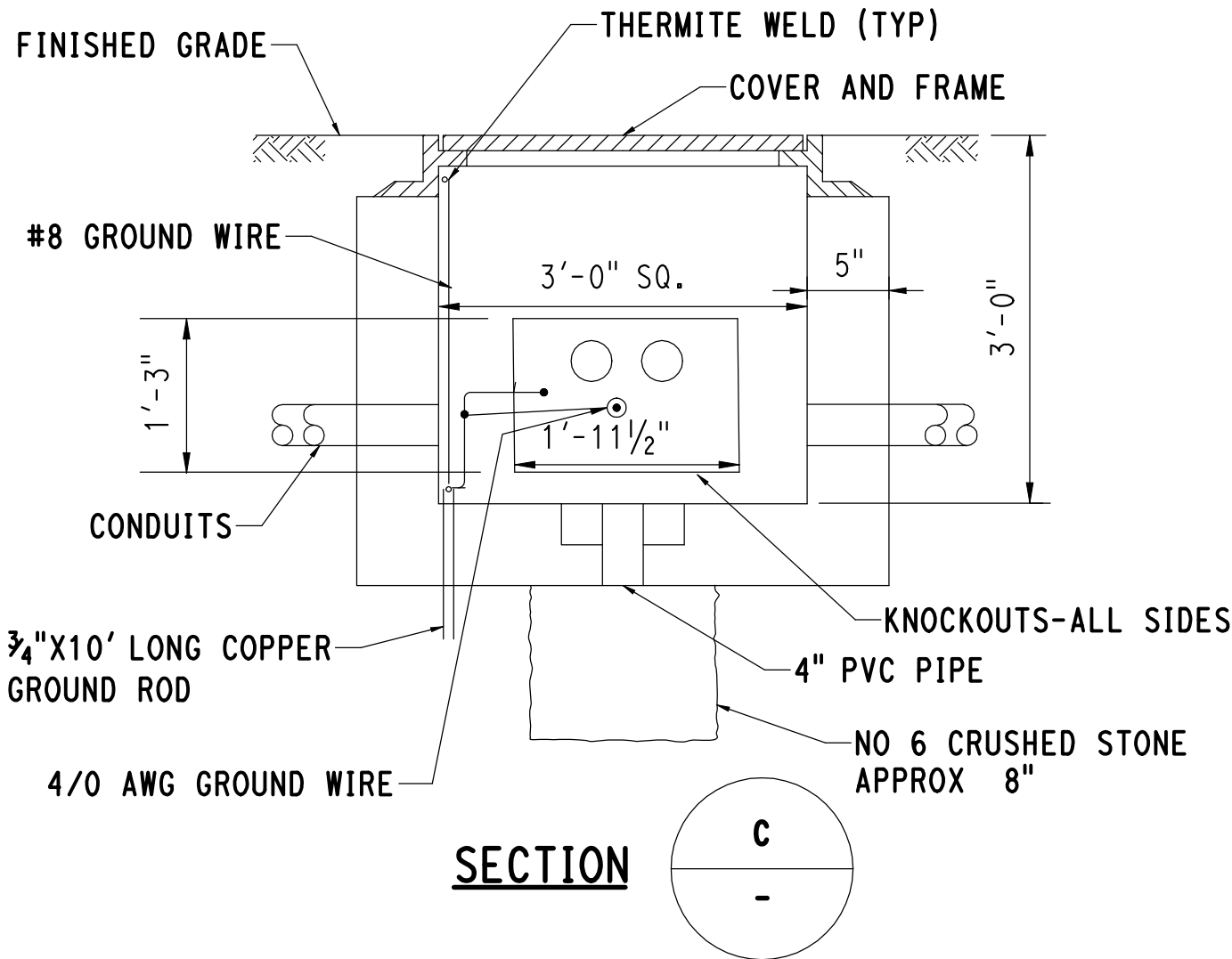
2-WAY DUCT BANK SCHEDULE

FROM	TO	WIRE OR CABLE			
		NO.	CONDUCTOR SIZE	INSTALLATION	LENGTH FT
*MOW BUILDING	*HH 935-1	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	10
HH 935-1	HH 935-2	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	65
HH 935-2	HH 940	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	145
HH 935-2	HH 930	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	120
HH 930	HH 925	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	110
HH 905	HH 910	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	160
HH 910	HH 975	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	70
HH 975	HH 900	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	105
HH 900	SERVICE	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	75
HH 975	HH 915	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	105
HH 915	HH 920	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	80
HH 940	HH 945	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	135
HH 945	HH 950	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	100
HH 970	HH 965	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	84
HH WP-2	SERVICE	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	115
HH WP-3	SERVICE	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	40
HH WP-3	HH WP-4	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	55
HH WP-4	HH WP-5	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	55
HH WP-5	HH WP-6	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	55
HH WP-6	HH WP-7	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	55
HH WP-7	HH WP-8	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	65
HH WP-8	HH WP-9	3 #2 1 #2	XHHW, 600V	SITE ILLUMINATION	70

*SEE BUILDING ELECTRICAL PLANS



PLAN VIEW

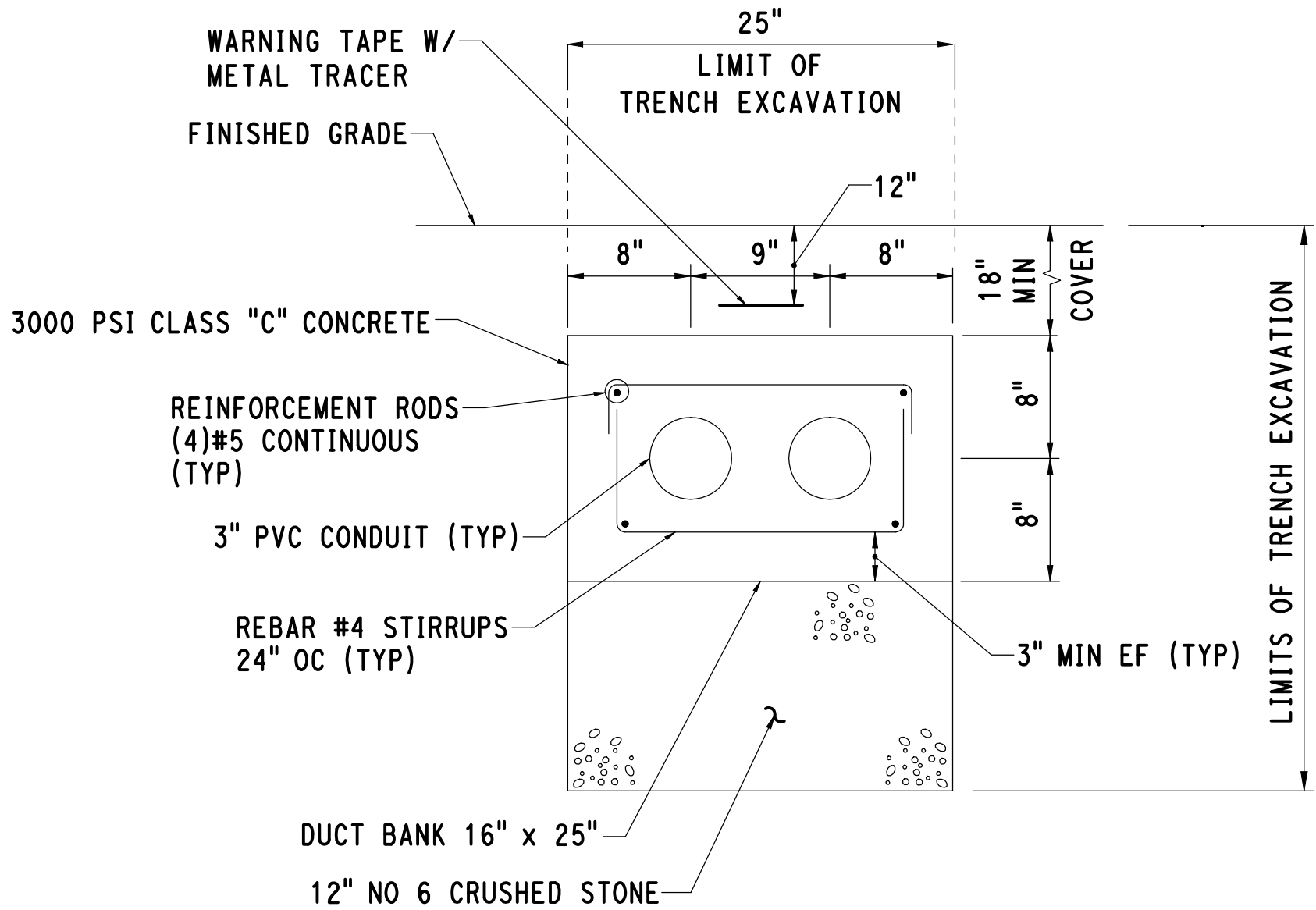


SECTION

NOTES:

1. PROVIDE CONTINUOUS COAT OF DAMP-PROOFING ON ALL SIDES OF HANDHOLES.
2. PROVIDE WATERTIGHT SEAL AROUND THE GROUND RODS AND ALL CONDUIT PENETRATIONS.
3. PROVIDE 8" OF NO 6 CRUSHED STONE BELOW HANDHOLES.
4. ALL SPLICES MUST BE APPROVED FOR SUBMERSIBLE LOCATIONS.
5. ALL HANDHOLES SHALL BE DESIGNED BY A CT LICENSED ENGINEER FOR HS-20 LOADINGS.

TYPICAL PRECAST ILLUMINATION HANDHOLE

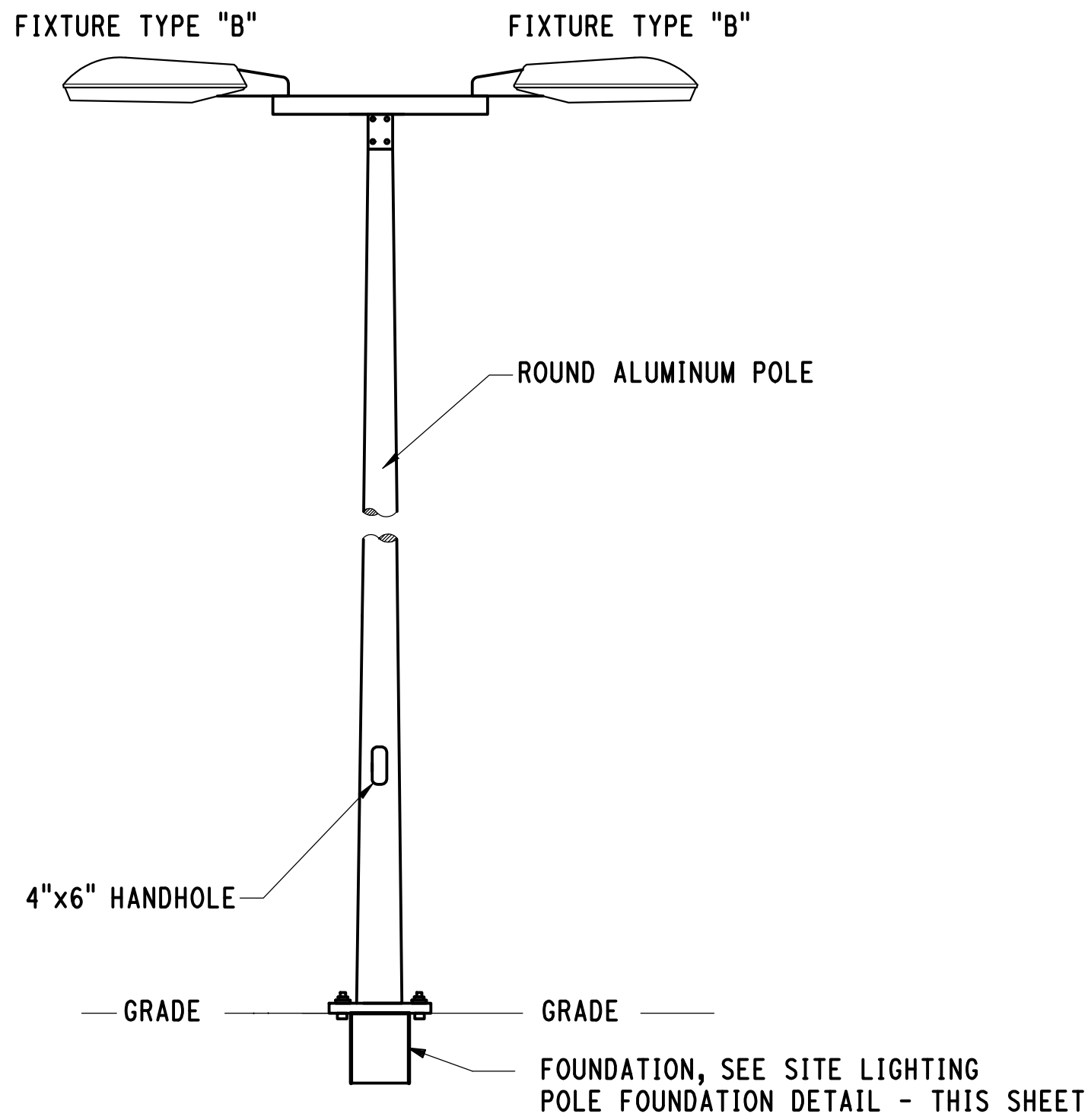


NOTES:

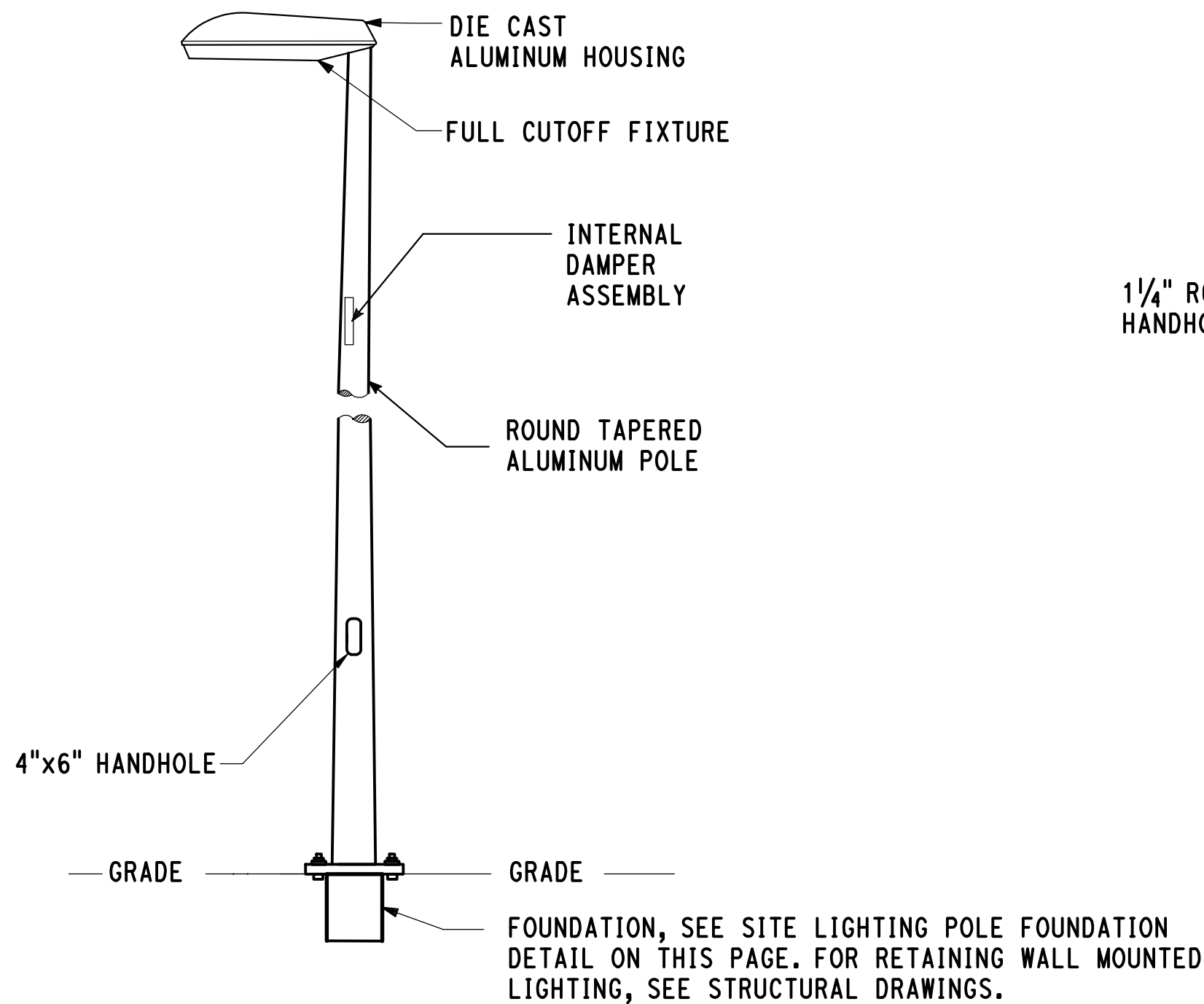
1. PLACE NO 6 CRUSHED STONE TO SEASONAL HIGH GROUND WATER ELEV 5.0.
2. SUITABLE BACKFILL MATERIAL SHALL BE ANY SUITABLE BACKFILL MATERIAL EXCAVATED FROM THE RESPECTIVE TRENCH THAT IS ACCEPTABLE TO THE ENGINEER. GRANULAR FILL SHOULD BE USED IN ABSENCE OF SUITABLE BACKFILL MATERIAL AS DIRECTED BY THE ENGINEER.
3. DUCT BANK REINFORCEMENT SHALL BE CONNECTED TO BUILDING FOUNDATION WALL AS INDICATED ON THE STRUCTURAL DRAWINGS.

2-WAY DUCT BANK SECTION DETAIL

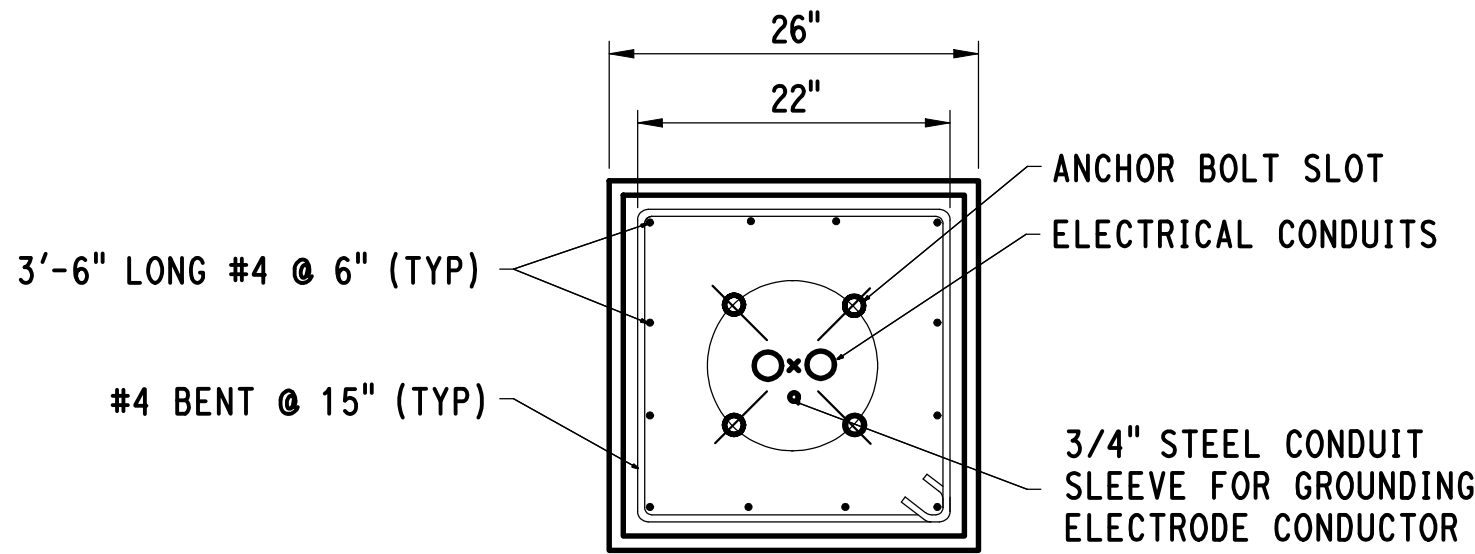
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SITE LIGHTING FIXTURE -TYPE "B" WITH 2 FIXTURE BRACKET
POLE DETAIL NO 1

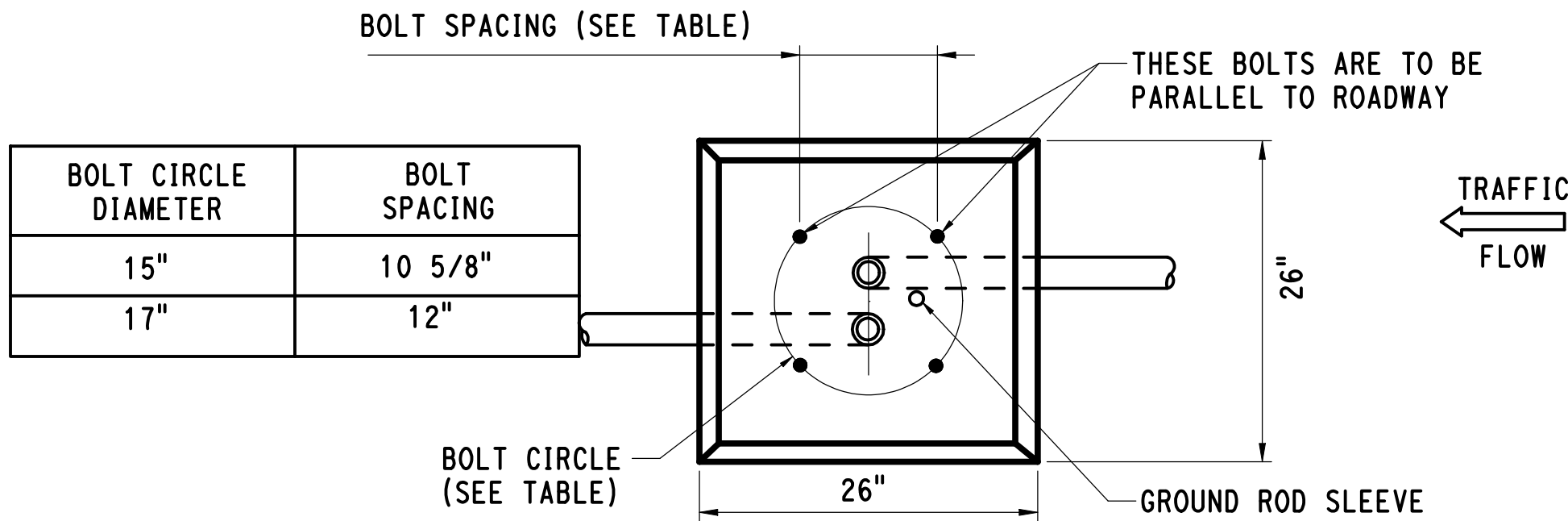


SITE LIGHTING FIXTURE -TYPE "A" AND "C"
POLE DETAIL NO 2

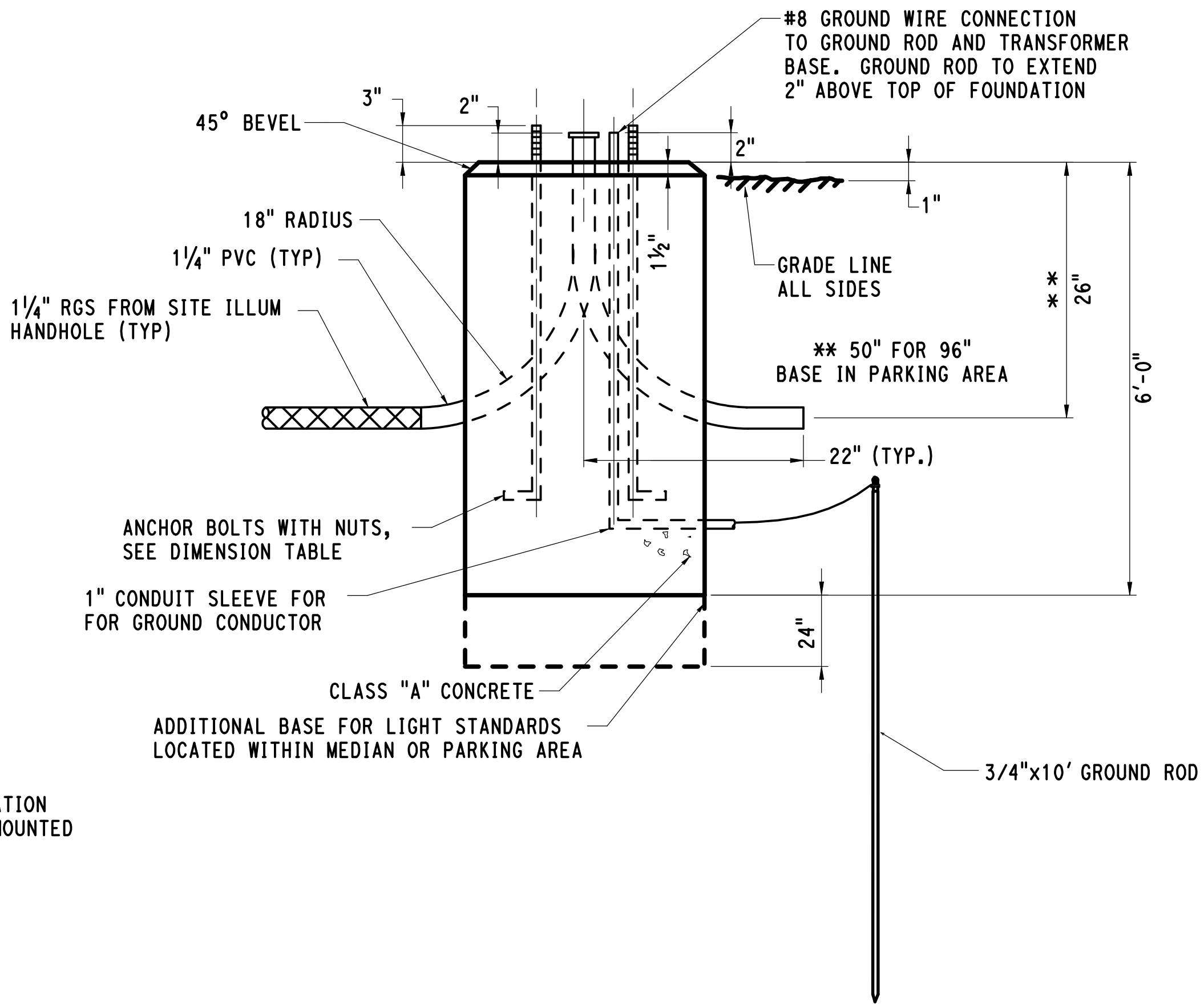


NOTE:
FACTORY SUPPLIED TEMPLATES MUST BE USED
WHEN SETTING ANCHOR BOLTS, FIELD VERIFY
DIMENSIONS BEFORE CONSTRUCTION.

SITE LIGHTING POLE BASE DETAIL (TYP)



BOLT CIRCLE DIAMETER	BOLT SPACING
15"	10 5/8"
17"	12"

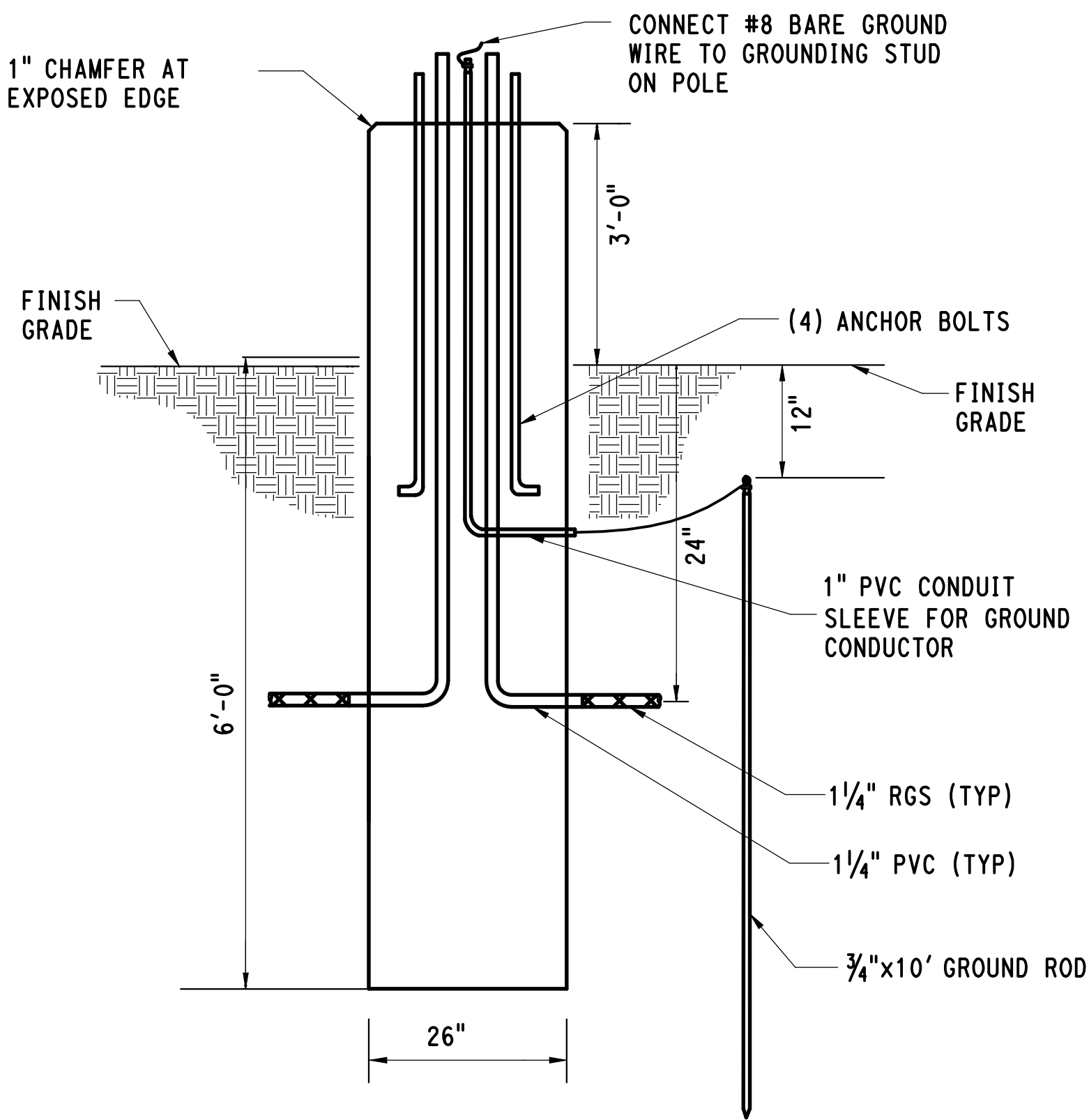
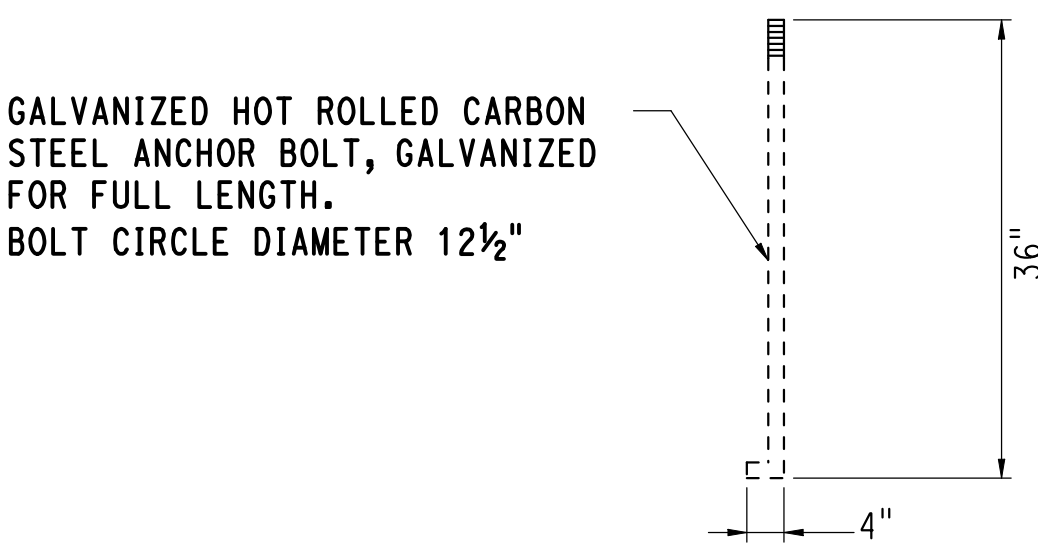


SITE LIGHTING POLE FOUNDATION IN GRASS

NOTES:

1. ALL SITE LIGHTING FIXTURES AT THE MAINTENANCE OF WAY BUILDING AND THE CCO SHOP PARKING LOT SHALL CONSIST OF 1 OR 2 284 WATT LED MOUNTED AT 30' ON AN ALUMINUM POLE. THE POLE SHALL CONSIST OF A 4" ALUMINUM SHAFT WITH AN INTEGRATED BASE. THE SHAFT SHALL BE ONE PIECE AND SHALL BE DESIGNED TO WITHSTAND A WIND SPEED OF 90 MPH IN ACCORDANCE WITH AASHTO "STANDARD SPECIFICATIONS TO STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".
2. EQUIP SITE LIGHTING LUMINAIRES WITH SEPARATE BOND AND GROUND LUGS.

ANCHOR BOLT DETAIL



SITE LIGHTING POLE FOUNDATION IN PAVEMENT

3/27/2015 3:31:26 PM T:\1866-NHRY\FIC\DOT_Projects\301_0088\Contract_Sheet_Files\20106-Site Illumination\20_ILDT_3010088_IL-023.dgn

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/27/2015

DESIGNER/DRAFTER: MWD / MWD
CHECKED BY: RSG
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

File name: 20_ILDT_3010088_IL-023.dgn

SIGNATURE/BLOCK:
VN ENGINEERS
NORTH HAVEN, CT

PROJECT TITLE:
**NEW HAVEN RAIL YARD
FACILITIES IMPROVEMENTS
MAINTENANCE OF WAY BUILDING**

TOWN:
NEW HAVEN

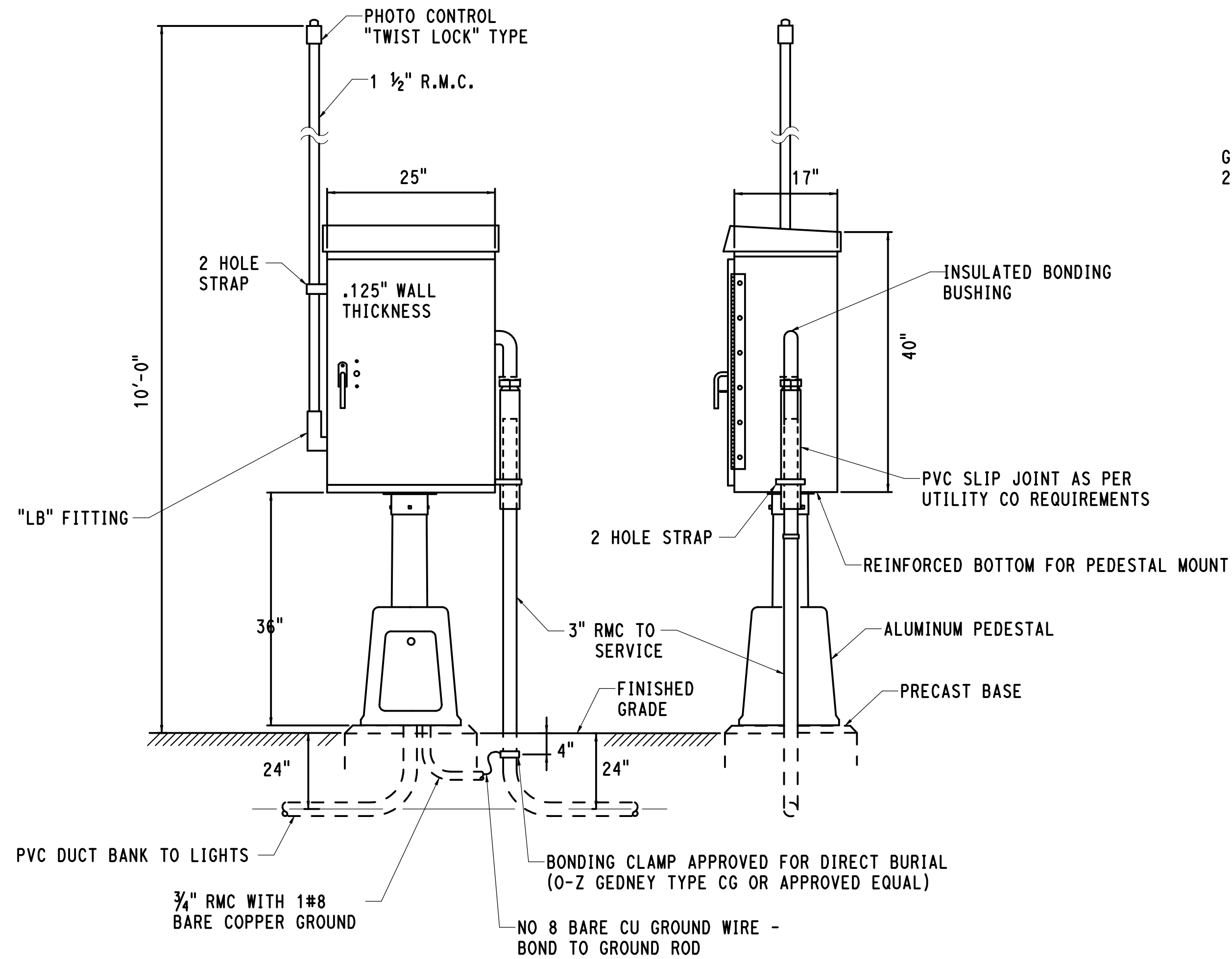
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DETAILS**

PROJECT NO.
301-0124

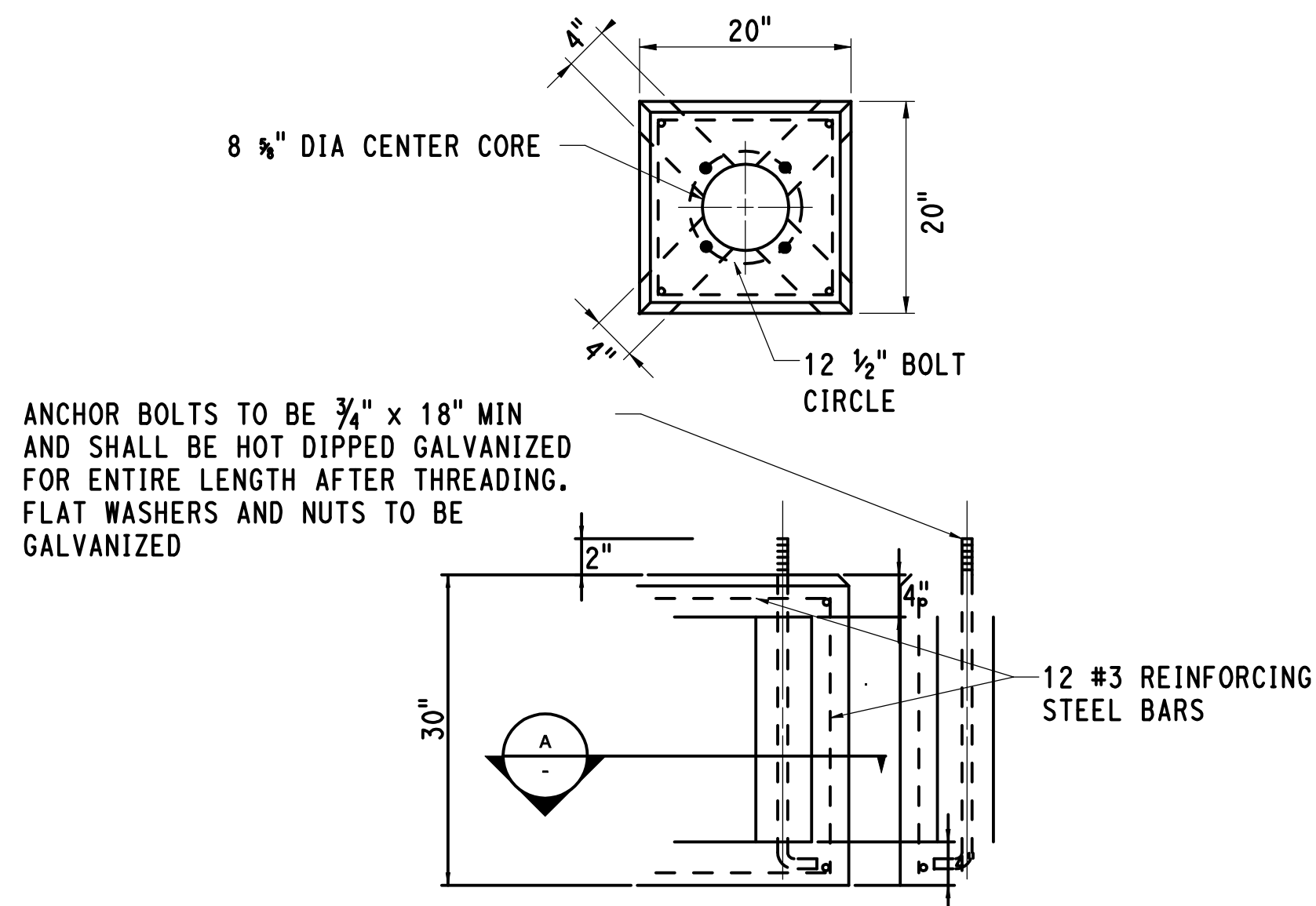
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SHEET NO.
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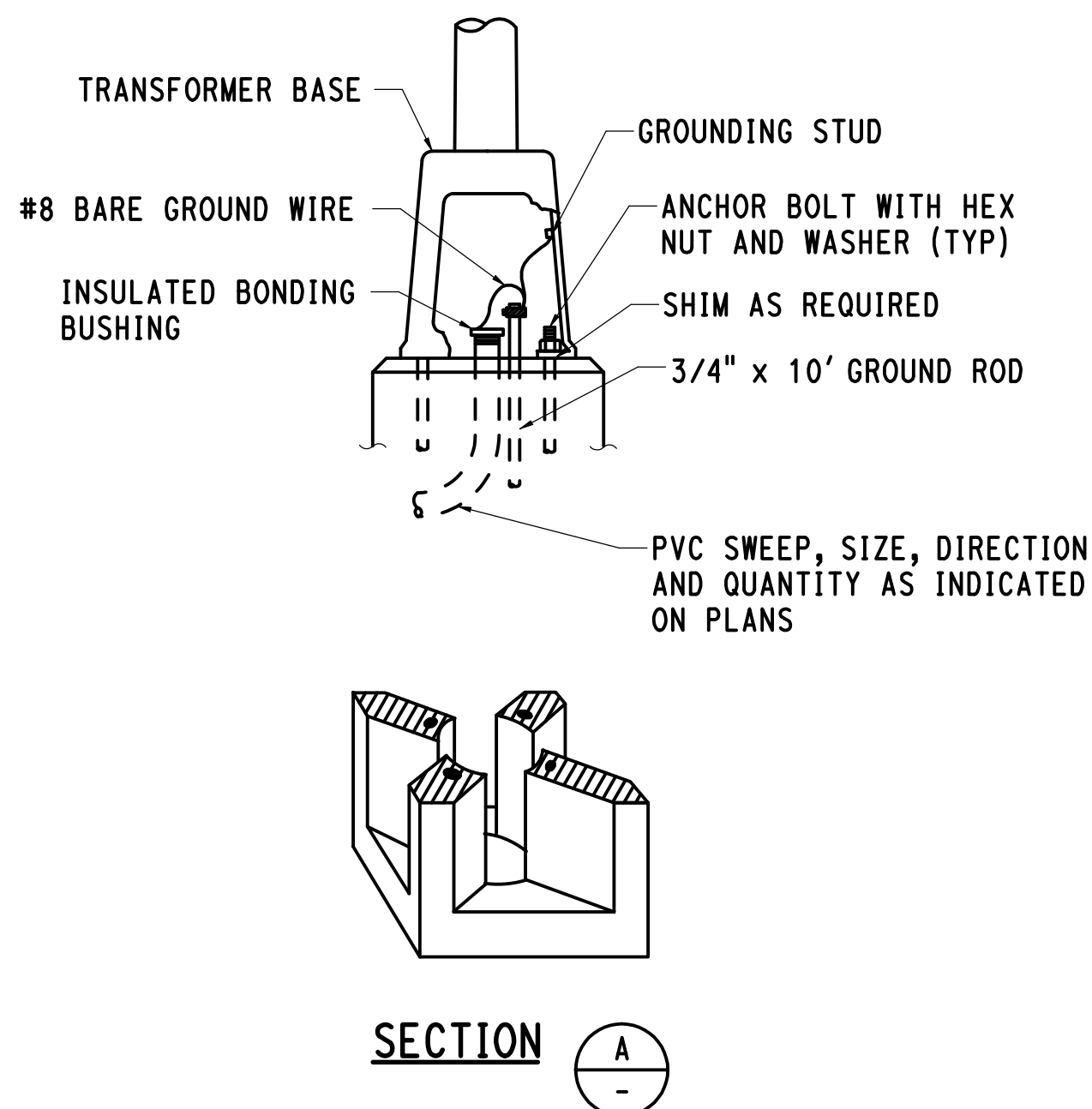


SERVICE CABINET TYPE II

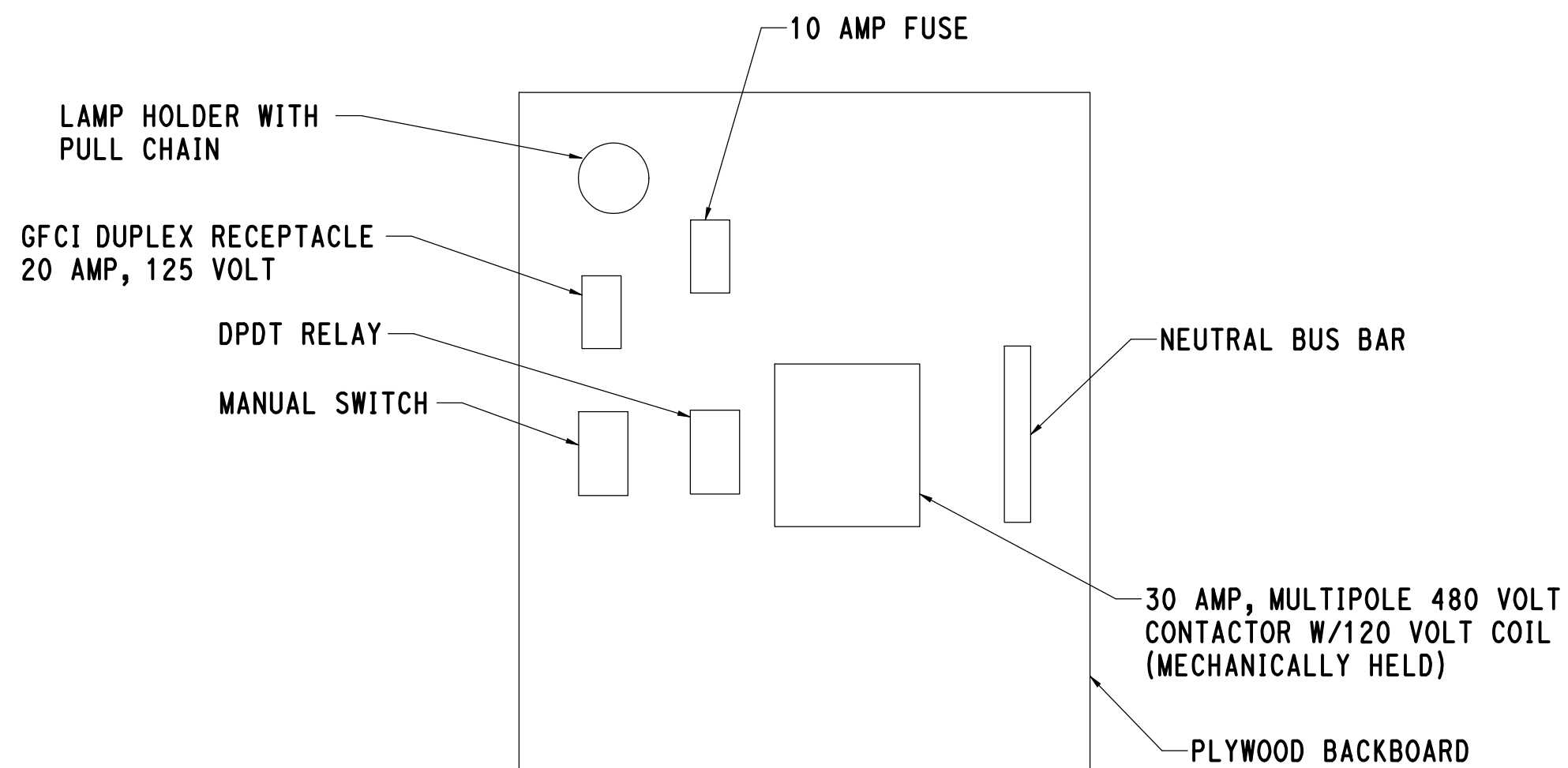


PRECAST PEDESTAL BASE - TYPE I

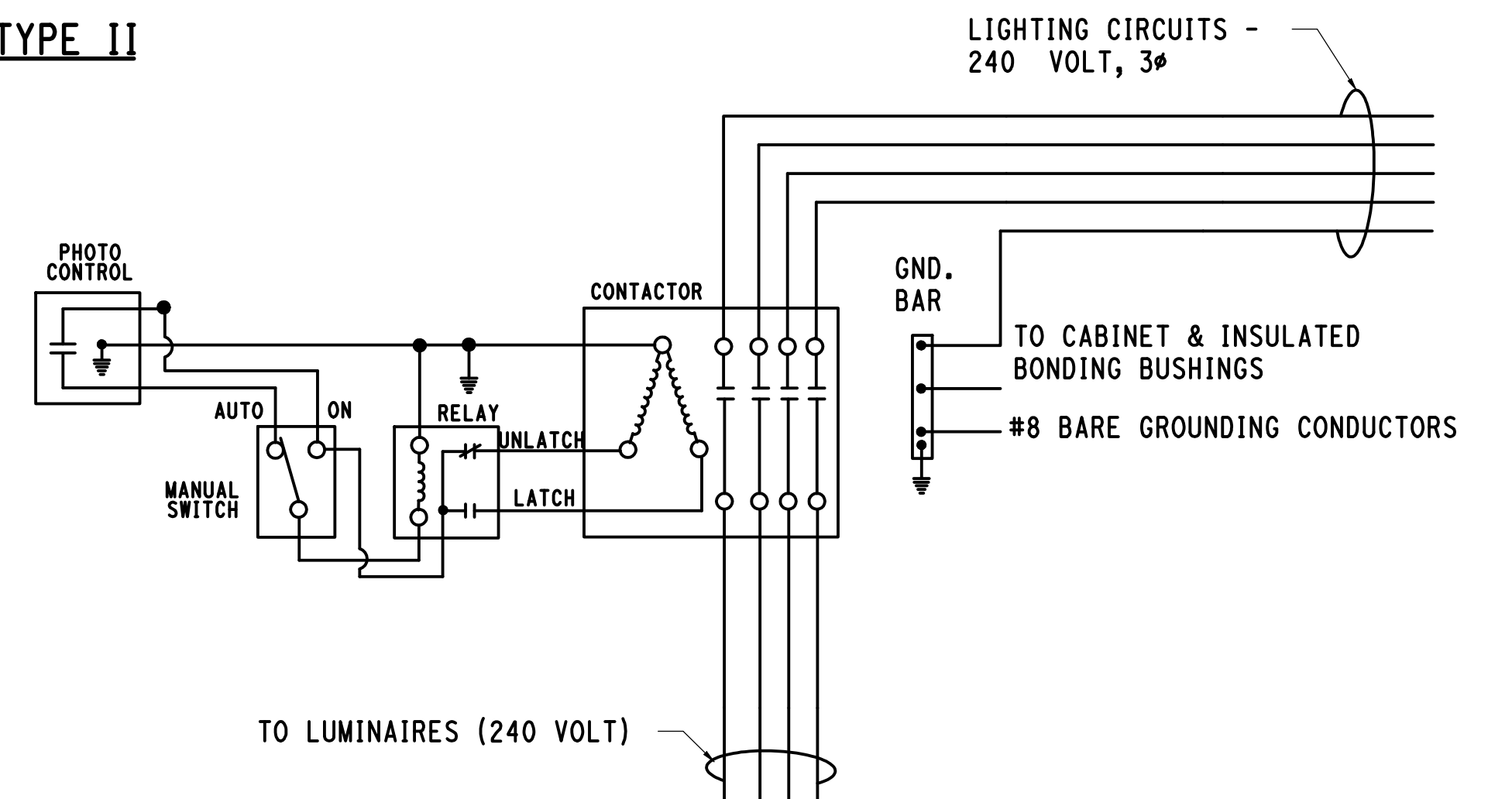
36" ALUMINUM PEDESTAL



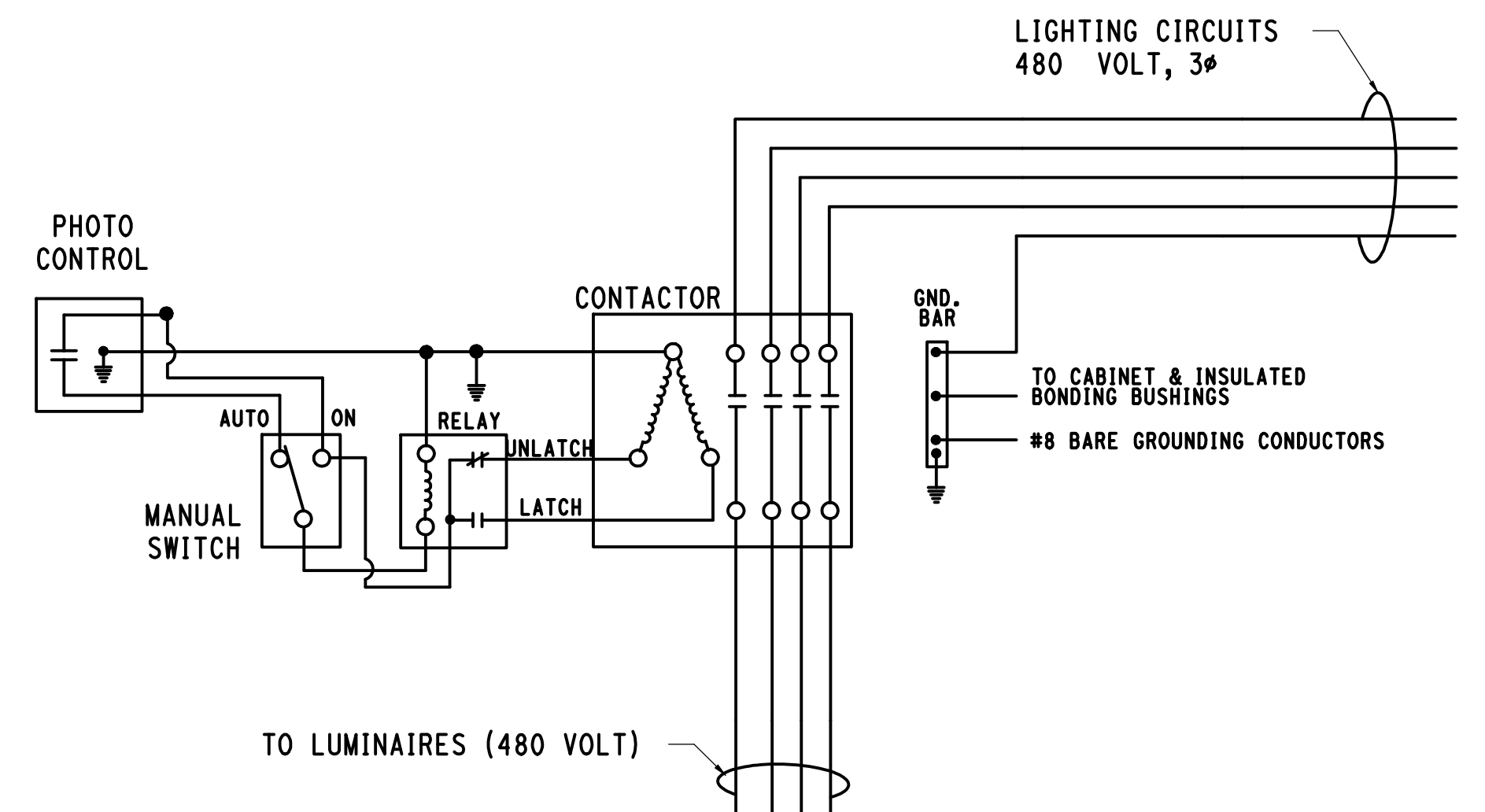
SECTION A



PANEL LAYOUT CABINET TYPE II



240v WIRING DIAGRAM



480v WIRING DIAGRAM

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/27/2015

DESIGNER/DRAFTER: NMA/MWD
CHECKED BY: RSG
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

File name: 20_ILDT_3010088_IL-024.dgn

SIGNATURE/BLOCK:
VN ENGINEERS
NORTH HAVEN, CT

PROJECT TITLE:
**NEW HAVEN RAIL YARD
FACILITIES IMPROVEMENTS
MAINTENANCE OF WAY BUILDING**

TOWN:
NEW HAVEN

DRAWING TITLE:
**SITE ILLUMINATION
DETAILS**

PROJECT NO.
301-0124

DRAWING NO.
IL-024

SHEET NO.
06.11